

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled DESIGNED PROTEIN PORES AS COMPONENTS FOR BIOSENSORS, the specification of which

☒ is attached hereto.

☐ was filed on _____ as Application Serial No. _____ and was amended on _____.

☐ was described and claimed in PCT International Application No. _____ filed on _____ and as amended under PCT Article 19 on _____.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim the benefit under Title 35, United States Code, §119(e)(1) of any United States provisional application(s) listed below:

U.S. SERIAL NO.	FILING DATE	STATUS
60/053,737	July 25, 1997	PENDING

I hereby appoint the following attorneys and/or agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: J. Peter Fasse, Reg. No. 32,983, Ingrid A. Beattie, Reg. No. P-42,306, John W. Freeman, Reg. No. 29,066; Janis K. Fraser, Reg. No. 34,819; Y. Rocky Tsao, Reg. No. 34,053; Anita L. Meiklejohn, Reg. No. 35,283; John F. Hayden, Reg. No. 37,640; and Eldora L. Ellison, Reg. No. 39,967.

Address all telephone calls to J. Peter Fasse at telephone number 617/542-5070.

Address all correspondence to J. Peter Fasse, Fish & Richardson P.C., 225 Franklin Street, Boston, MA 02110-2804.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full Name of Inventor: Hagan Baylev

Inventor's Signature: _____ Date: _____

Residence Address: 1800 Springbrook Estates Drive, College Station, Texas 77845

Citizen of: United Kingdom

Post Office Address: 1800 Springbrook Estates Drive, College Station, Texas 77845

COMBINED DECLARATION AND POWER OF ATTORNEY CONTINUED

Full Name of Inventor: Orit Braha

Inventor's Signature: _____

Date: _____

Residence Address: 1800 Springbrook Estates Drive, College Station, Texas 77845

Citizen of: Israel

Post Office Address: 1800 Springbrook Estates Drive, College Station, Texas 77845

Full Name of Inventor: John Kasianowicz

Inventor's Signature: _____

Date: _____

Residence Address: 14701 Lancraft Court, Darnestown, Maryland 20874-3400

Citizen of: United States of America

Post Office Address: 14701 Lancraft Court, Darnestown, Maryland 20874-3400

Full Name of Inventor: Eric Gouaux

Inventor's Signature: _____

Date: _____

Residence Address: 533 West 112th Street, Apt. 6E, New York, NY 10025

Citizen of: United States of America

Post Office Address: 533 West 112th Street, Apt. 6E, New York, NY 10025

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PATENT
ATTORNEY DOCKET NO: 07917/062001

COMBINED DECLARATION AND POWER OF ATTORNEY

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I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled DESIGNED PROTEIN PORES AS COMPONENTS FOR BIOSENSORS, the specification of which

- ☐ is attached hereto.
☒ was filed on July 24, 1998 as Application Serial No. 09/122,583
 and was amended on _____
☐ was described and claimed in PCT International Application No. _____
 filed on _____ and as amended under PCT Article 19 on _____.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

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Full Name of Inventor: Hagan Bayley

Inventor's Signature: _____

Date: 12/9/98

Residence Address: 1800 Springbrook Estates Drive, College Station, Texas 77845

Citizen of: United Kingdom

Post Office Address: 1800 Springbrook Estates Drive, College Station, Texas 77845

09764585 "021504"

Full Name of Inventor: OritInventor's Signature: *Orit*

Date: _____

Residence Address: 1800 Springbrook Estates Drive, College Station, Texas 77845Citizen of: IsraelPost Office Address: 1800 Springbrook Estates Drive, College Station, Texas 77845Full Name of Inventor: John Kasianowicz

Inventor's Signature: _____

Date: _____

Residence Address: 14701 Lancraft Court, Darnestown, Maryland 20874-3400Citizen of: United States of AmericaPost Office Address: 14701 Lancraft Court, Darnestown, Maryland 20874-3400Full Name of Inventor: Eric Gouaux

Inventor's Signature: _____

Date: _____

Residence Address: 533 West 112th Street, Apt. 6E, New York, NY 10025Citizen of: United States of AmericaPost Office Address: 533 West 112th Street, Apt. 6E, New York, NY 10025

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Full Name of Inventor: Orit Brah

Inventor's Signature: _____ Date: _____

Residence Address: 1800 Springbrook Estates Drive, College Station, Texas 77845

Citizen of: Israel

Post Office Address: 1800 Springbrook Estates Drive, College Station, Texas 77845

Full Name of Inventor: John Kasianowicz

Inventor's Signature: John Kasianowicz Date: 11 September, 1998

Residence Address: 14701 Lancraft Court, Darnestown, Maryland 20874-3400

Citizen of: United States of America

Post Office Address: 14701 Lancraft Court, Darnestown, Maryland 20874-3400

Full Name of Inventor: Eric Gouaux

Inventor's Signature: _____ Date: _____

Residence Address: 533 West 112th Street, Apt. 6E, New York, NY 10025

Citizen of: United States of America

Post Office Address: 533 West 112th Street, Apt. 6E, New York, NY 10025

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For valuable consideration, we, Hagan Bayley, of College Station, Texas,
Orit Braha, of College Station, Texas; hereby assign to University of Massachusetts, a Massachusetts
corporation having a place of business at One Beacon Street, Boston, Massachusetts 02108, and its
successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest
throughout the world in the inventions and improvements which are subject of an application for United
States Patent signed by us, entitled DESIGNED PROTEIN PORES AS COMPONENTS FOR
BIOSENSORS, filed July 25, 1997, and assigned U.S. Serial Number 60/053,737, this assignment
including said application, any and all United States and foreign patents, utility models, and design
registrations granted for any of said inventions or improvements, and the right to claim priority based on
the filing date of said application under the International Convention for the Protection of Industrial
Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like
purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for
patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates
for said inventions and improvements; and we agree for ourselves and our respective heirs, legal
representatives and assigns, without further compensation to perform such lawful acts and to sign such
further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may
reasonably request to effectuate fully this assignment.

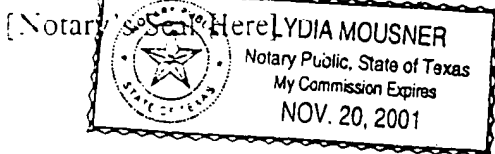
IN WITNESS WHEREOF, I hereto set my hand and seal at College Station, TX,
this 14th day of January, 1998
HAGAN BAYLEY L.S.

STATE OF TEXAS:
COUNTY OF BRAZOS: ss.

Before me this 14th day of January, 1998 personally appeared
HAGAN BAYLEY known to me to be the person whose name is subscribed to the foregoing Assignment
and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

Lydia Mousner
Notary Public

My Commission Expires: 11-20-01



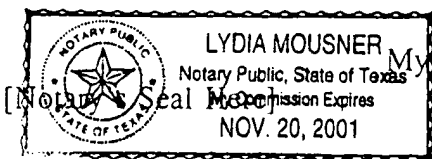
09704985 021504

IN WITNESS WHEREOF, I hereto set my hand and seal at College Station, TX,
this 15th day of January, 1998
ORIT BRAHA L.S.

STATE OF TEXAS:
COUNTY OF BRAZOS: ss.

Before me this 15th day of January, 1998, personally appeared
ORIT BRAHA known to me to be the person whose name is subscribed to the foregoing Assignment, and
acknowledged that she executed the same as her free act and deed for the purposes therein contained.

Lydia Mousner
Notary Public



My Commission Expires: 11-20-01

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